

PRE AGM WEBINAR TALK ON

SMART CITIES DESIGN & DIGITAL TWIN TECHNOLOGY

BEM APPROVED CPD HOURS: 2

REF NO.: IEM26/HQ/336/T(w)

Speaker :
Prof. Ar. Dr. Lim Chin Haw



09:00AM - 11:00AM



**22 AUGUST, 2026
SATURDAY**

ZOOM WEBINAR



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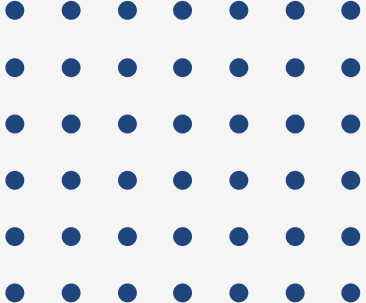
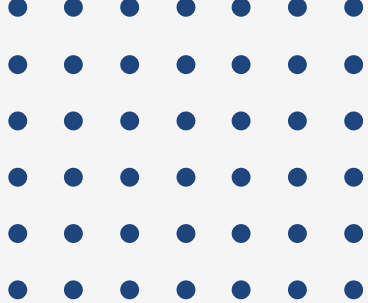
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Registration Fees:

- Student Member : **FOC**
- IEM Member : **RM 15.00**
- Non-Member : **RM 70.00**



SYNOPSIS

The rapid urbanisation across the globe has intensified the need for cities to adopt smarter, more resilient, and data-driven approaches to planning and development. This presentation explores how Smart Cities can be strategically designed through the integration of digital technologies, advanced sensing systems, and performance-based planning frameworks. Central to this transformation is Digital Twin technology a virtual replica of physical urban environments that enables real-time monitoring, simulation, and predictive analytics. By linking building performance data, environmental conditions, and urban systems into a unified digital ecosystem, Digital Twins empower planners, engineers, and policymakers to make informed decisions that enhance sustainability, energy efficiency, and liveability. The talk will highlight practical applications, emerging trends, and case studies relevant to Malaysia's urban development landscape, while demonstrating how Digital Twin platforms can support net-zero aspirations, city-scale innovation, and future-ready engineering education.

SPEAKER'S PROFILE

Prof. Ar. Dr. Lim Chin Haw is a Professor of Architecture at Taylor's University and the Research Cluster Lead for Net-Zero Buildings and Cities. His scholarly work centres on building performance, adaptive thermal comfort, digital twin integration, and sustainable urban design. He has published extensively in high-impact international journals and leads multiple research grants advancing green building strategies, simulation technologies, and campus sustainability innovations. Recognised globally for his contributions to the field, he is ranked among the World's Top 5% Scientists.